



2019 Water Quality Report East Pikeland, PWSID# PA1150006

*Este informe contiene información muy importante sobre su agua potable.
Tradúzcalo ó hable con alguien que lo entienda bien.*

About Your Drinking Water

Aqua Pennsylvania, Inc. (Aqua) is pleased to provide you with important information about your drinking water in this 2019 Consumer Confidence Report for the East Pikeland water system (public water supply ID-PA1150006). Aqua acquired this system in December 2019. The report summarizes the quality of water provided in 2019 - including details about water sources, what the water at your tap contains, and how it compares to standards set by regulatory agencies. Although the report lists only those regulated substances that were detected in your water, we test for more than what is reported. This report is only a summary of our testing during 2019. If you have any questions about the information in this report, please call 610.645.4248 or visit our website at AquaAmerica.com.

Sources of Supply

Water for the East Pikeland water system is a purchased surface water supply from the Borough of Phoenixville. The Borough withdraws water from the Schuylkill through two intakes at the main plant. A Source Water Assessment for the Schuylkill River was completed in 2002 by the Pennsylvania Department of Environmental Protection (DEP). The source overall has a moderate risk of significant contamination. The Assessment found that this source is potentially susceptible to spills, failing septic systems, wastewater lift station and collector overflows, runoff from roads and parking lots, and waterfowl. The Schuylkill River is susceptible to the effects of acid mine drainage in the upper watershed. Information on source water assessments is available on the DEP Web site at www.dep.pa.gov (DEP keyword "source water"). Complete reports were distributed to municipalities, water suppliers, local planning agencies, and DEP offices. Copies of the report are available for review at the DEP Southeast Regional Office, Records Management Unit (484.250.5900).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban storm runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organics, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff and septic systems.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities. Radon is not regulated in drinking water. It is a radioactive gas that you cannot see, taste, or smell. Most radon enters homes directly from underground. Radon can also be released into air from tap water. Generally, tap water is a small source of radon in indoor air.

In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's (EPA) Safe Drinking Water Hotline (800.426.4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (800.426.4791).

The following table lists regulated contaminants that were detected in your water system.

Phoenixville Water Department, PWSID # 1150077

The following table lists contaminants that were detected in your water system. The table provides the average of the sources used to supply the Borough as well as minimum and maximum observed levels of regulated contaminants.

Contaminants	Average Detection	Range of Detections	MCL	MCLG	Sample Date	Violation Y/N	Major Sources in Drinking Water
Turbidity, % meeting plant performance level	100%	100 - 100%	TT	NA	2019	N	Soil runoff
Values above are % meeting plant performance level. The Treatment Technique requirement is 95% of samples < 0.3 NTU.							
Inorganic Contaminants							
Barium, ppm	0.04	NA	2	2	2018	N	Erosion of natural deposits
Chromium, ppb	2.6	NA	100	100	2018	N	
Fluoride, ppm	0.5	NA	2	2	2019	N	Water additive which promotes strong teeth
Nitrate, ppm	3	NA	10	10	2019	N	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Radiological Contaminants							
Gross Beta, pCi/L	1.7	ND – 3.8	50 (a)	0	2018	N	Decay of natural and man-made deposits
a) The MCL for beta particles is 4 millirems per year (a measure of radiation absorbed by the body). EPA considers 50 pCi/L to be a level of concern for beta particles.							
Disinfectant and Disinfection Byproducts							
Chloramines, ppm	1.4	1.0 – 1.8	MRDL = 4	MRDLG = 4	2019	N	Water additive used to control microbes
Haloacetic acids, ppb	24	11 - 46	60	NA	2019	N	Byproduct of drinking water chlorination
Total Trihalomethanes, ppb	54	11 - 102	80	NA	2019	N	

Contaminants	Minimum Disinfectant Residual	Lowest Level Detected	Range of Detections	Sample Date	Violation Y/N	Major Sources in Drinking Water
Entry Point Disinfectant Residual – PA Rule: This rule requires that no station operate below specific minimum chlorine levels for more than 4 hours.						
Chlorine, ppm	0.2	1.3	1.3 – 3.9	2019	N	Water additive used to control microbes

Lead and Copper	90th Percentile	Total Number of Samples	Samples Exceeding Action Level	Action Level	MCLG	Sample Date	Violation Y/N	Major Sources in Drinking Water
Copper, ppm	0.23	30	0	1.3	1.3	2019	N	Corrosion of household plumbing
Lead, ppb	ND	30	0	15	0	2019	N	

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Borough of Phoenixville is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

Total Organic Carbon (TOC)						
Contaminant	Range of % Removal Required	Range of percent removal achieved	Number of quarters out of compliance	Violation Y/N	Sample Date	Sources of Contamination
TOC	25 - 35	20 - 32	0	N	2019	Naturally present in the environment

Cryptosporidium is a microbial parasite found in waters throughout the United States. During 2017-2018 monitoring of the raw surface water source (prior to treatment), Cryptosporidium was detected at an average concentration of 0.09 oocyst per liter. Samples were collected monthly from January 2017 through August 2018 from the raw water supply (Schuylkill River) and had a range of concentrations of Not Detected to 0.444 oocyst per liter. Although filtration removes Cryptosporidium, the most commonly used filtration methods cannot guarantee 100 percent removal. Current test methods do not allow us to determine if the organisms are dead or if they are capable of causing disease. Ingestion of Cryptosporidium may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immune-compromised people, infants and small children, and the elderly are at a greater risk of developing life-threatening illness. We encourage immuno-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. Cryptosporidium must be ingested to cause disease and it may be spread through means other than drinking water.

Violations: The Borough of Phoenixville received several violations for 2019. Due to an administrative oversight, certain samples were not collected as required. This resulted in Monitoring/Reporting violations for inorganic compounds (IOCs) and volatile organic compounds (VOCs). Samples were collected in 2020 promptly after the Borough was notified by PADEP.

A violation was also obtained for not notifying customers during 2019 about results of lead and copper samples collected from their homes. This oversight was corrected in 2020 and participants in the Lead and Copper Rule program were notified of their results.

A reporting violation was obtained in October 2019 about turbidity. The Borough of Phoenixville was reporting filter effluent turbidity data every four hours but was continuously monitoring and recording filter effluents. A slight correction had to be made to the reporting system and was approved by DEP.

Notes:

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Fluoride: Fluoride may help prevent tooth decay if administered properly to children but can be harmful in excess. Customers in the Aqua PA East Pikeland Division receive water from a fluoridated supply. For more information about fluoride in your tap water, call Aqua at 610.645.4248. This information may be helpful to you, your pediatrician, or your dentist in determining whether fluoride supplements or treatment are appropriate.

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

NA: Not applicable.

ND: Not detected.

pCi/L, picoCuries/Liter: A unit of concentration for radioactive contaminants.

ppb: A unit of concentration equal to one part per billion.

ppm: A unit of concentration equal to one part per million.

PWSID: Public water supply identification number.

Our water systems are designed and operated to deliver water to our customers' plumbing systems that complies with state and federal drinking water standards. This water is disinfected using chlorine, but it is not necessarily sterile. Customers' plumbing, including treatment devices, might remove, introduce or increase contaminants in tap water. All customers, and in particular operators of facilities like hotels and institutions serving susceptible populations (like hospitals and nursing homes), should properly operate and maintain the plumbing systems in these facilities. You can obtain additional information from the EPA's Safe Drinking Water Hotline at 800.426.4791.